

04-062 Sequence Listing
SEQUENCE LISTING

<110> TAKARA BIO INC.
<120> Composition for suppressing human Flt-3 function
<130> 04-062-PCTJP
<150> JP2003-350253
<151> 2003-10-09
<160> 40
<170> PatentIn version 3.3
<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> A partial cDNA sequence of ATP-binding site.
<400> 1
aaggtactag gatcaggtgc t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Designated as SEQ1-S. "nucleotides 20 and 21 are
deoxyribonucleotides - other nucleotides are ribonucleotides."
<400> 2
gguacuagga ucaggugcut t 21

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Designated as SEQ1-AS. "nucleotides 20 and 21 are
deoxyribonucleotides - other nucleotides are ribonucleotides."
<400> 3
agcaccugau ccuaguacct t 21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> A partial cDNA sequence of TK domain.
<400> 4
aacaggagtc tcaatccagg t 21

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<210> 5
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Designated as SEQ2-S. "nucleotides 20 and 21 are
 deoxyribonucleotides - other nucleotides are ribonucleotides."

 <400> 5
 caggagucuc aauccaggut t 21

 <210> 6
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Designated as SEQ2-AS. "nucleotides 20 and 21 are
 deoxyribonucleotides - other nucleotides are ribonucleotides."

 <400> 6
 accuggauug agacuccugt t 21

 <210> 7
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> A partial cDNA sequence of FLT3/ITD domain.

 <400> 7
 aatatgaata tgatctcaaa t 21

 <210> 8
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Designated as SEQ3-S. "nucleotides 20 and 21 are
 deoxyribonucleotides - other nucleotides are ribonucleotides."

 <400> 8
 uaugaauaug aucucaaaut t 21

 <210> 9
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Designated as SEQ3-AS. "nucleotides 20 and 21 are
 deoxyribonucleotides - other nucleotides are ribonucleotides."

 <400> 9

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auuugagauc auauucauat t

21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of bcr/abl chimera domain.

<400> 10
aagcagagtt caaaagcccu u

21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 11
gcagaguuca aaagcccuut t

21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 12
aagggcuuuu gaacucugct t

21

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer FLT11F for amplifying a gene encoding FLT3.

<400> 13
gcaatttagg tatgaaagcc agc

23

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer FLT12R for amplifying a gene encoding FLT3.

<400> 14
ctttcagcat tttgacggca acc

23

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<210> 15
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer G1 for amprifying a gene encoding GAPDH.

<400> 15
 caacagcctc aagatcatca gc 22

<210> 16
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer G2 for amprifying a gene encoding GAPDH.

<400> 16
 ttctagacgg caggtcaggt c 21

<210> 17
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 17
 gatcccggtg ctaggatcag gtgctttcaa gagaagcacc tgatcctagt accttttttg 60
 gaaa 64

<210> 18
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Expression cassette FLT3SI1R for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 18
 agctttttcca aaaaaggtac taggatcagg tgcttctctt gaaagcacct gatcctagta 60
 ccgg 64

<210> 19

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<211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Expression cassette FLT3CON1F for expressing control sequence.
 "the region of nucleotides 1 to 5 is BamHI restriction site - the
 region of nucleotides 26 to 34 is loop site - the region of
 nucleotides 54 to 59 is RNA polymerase III terminator site"

 <400> 19
 gatcccggag tcgtagctgc agtatttcaa gagaatactg cagctacgac tccttttttg 60
 gaaa 64

 <210> 20
 <211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Expression cassette FLT3CON1R for expressing control sequence.
 "the region of nucleotides 1 to 5 is HindIII restriction site -
 the region of nucleotides 10 to 15 is RNA polymerase III
 terminator site - the region of nucleotides 35 to 43 is loop

 <400> 20
 agcttttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60
 ccgg 64

 <210> 21
 <211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD
 domain. "the region of nucleotides 1 to 5 is BamHI restriction
 site - the region of nucleotides 26 to 34 is loop site - the
 region of nucleotides 54 to 59 is RNA polymerase III terminator

 <400> 21
 gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atattttttg 60
 gaaa 64

 <210> 22
 <211> 64
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD
 domain. "the region of nucleotides 1 to 5 is HindIII restriction
 site - the region of nucleotides 10 to 15 is RNA polymerase III
 terminator site - the region of nucleotides 35 to 43 is loop

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<400> 22
agctttttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60
tagg 64

<210> 23
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON3F for expressing control sequence.
"the region of nucleotides 1 to 5 is BamHI restriction site - the
region of nucleotides 26 to 34 is loop site - the region of
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 23
gatcccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt attttttttg 60
gaaa 64

<210> 24
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON3R for expressing control sequence.
"the region of nucleotides 1 to 5 is HindIII restriction site -
the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

<400> 24
agctttttcca aaaaaaataa tttgcttcaa agattctctt gaaatctttg aagcaaatta 60
ttgg 64

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' sequencing primer.

<400> 25
taatacgact cactataggg 20

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' sequencing primer.

<400> 26

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aggcgattaa gttgggta

18

<210> 27
 <211> 144
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Juxtamembrane domain.

<400> 27
 tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggt acaggtgacc 60
 ggctcctcag ataatgagta cttctacggt gatttcagag aatatgaata tgatctcaaa 120
 tgggagtttc caagagaaaa tttta 144

<210> 28
 <211> 471
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Tyrosine kinase domain.

<400> 28
 acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccagggtgcc gtcaaaatgc 60
 tgaaagaaaa agcagacagc tctgaaagag aggcactcat gtcagaactc aagatgatga 120
 cccagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac 180
 caatttactt gatTTTTgaa tactgttgct atggtgatct tctcaactat ctaagaagta 240
 aaagagaaaa atttcacagg acttggacag agattttcaa ggaacacaat ttcagttttt 300
 accccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360
 acccgactc ggatcaaadc tcagggttc atgggaattc atttcactct gaagatgaaa 420
 ttgaatatga aaaccaaaaa aggctggaag aagaggagga cttgaatgtg c 471

<210> 29
 <211> 517
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> ATP-binding domain.

<400> 29
 gagtttggga aggtactagg atcagggtgct tttggaaaag tgatgaacgc aacagcttat 60
 ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120
 gacagctctg aaagagagggc actcatgtca gaactcaaga tgatgacca gctgggaagc 180
 cacgagaata ttgtgaacct gctggggggcg tgcacactgt caggaccaat ttacttgatt 240
 tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt 300

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cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttaccc cactttccaa 360
 tcacatccaa attccagcat gcctgggttca agagaagttc agataacccc ggactcggat 420
 caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480
 caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> "nucleotides 20 and 21 are deoxyribonucleotides - other
 nucleotides are ribonucleotides."

<400> 30
 gguuauquac aggaacgcat t 21

<210> 31
 <211> 21
 <212> DNA
 <213> Artificial

<220>
 <223> "nucleotides 20 and 21 are deoxyribonucleotides - other
 nucleotides are ribonucleotides."

<400> 31
 ugcguuccug uacauaacct t 21

<210> 32
 <211> 19
 <212> DNA
 <213> Artificial

<220>
 <223> A partial cDNA sequence of ATP-binding domain.

<400> 32
 ggtactagga tcaggtgct 19

<210> 33
 <211> 19
 <212> RNA
 <213> Artificial

<220>
 <223> siRNA

<400> 33
 gguacuagga ucaggugcu 19

<210> 34
 <211> 19
 <212> RNA

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<213> Artificial

<220>

<223> siRNA

<400> 34

agcaccugau ccuaguacc

19

<210> 35

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of TK domain.

<400> 35

caggagtctc aatccaggt

19

<210> 36

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 36

caggagucuc aauccaggu

19

<210> 37

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 37

accuggauug agacuccug

19

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 38

tatgaatatg atctcaa

19

<210> 39

<211> 19

<212> RNA

<213> Artificial

<220>

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<223> siRNA

<400> 39

uaugaauaug aucucaaau

19

<210> 40

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 40

auuugagauc auauucaua

19